

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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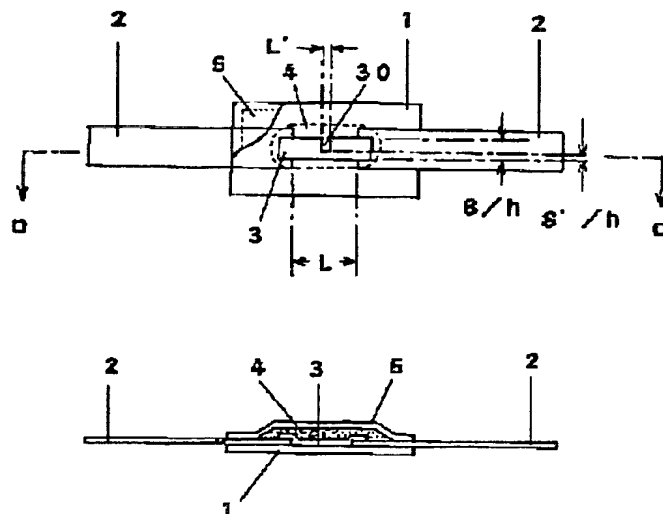
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TITLE : ALLOY-TYPE TEMPERATURE FUSE



ABSTRACT : PROBLEM TO BE SOLVED: To adequately provide an operation at a prescribed upper limit temperature and an operation at a prescribed over current at temperature lower than this upper limit temperature, by providing a notch in a low-melting-point fusible alloy piece as a fuse element coated with flux.

SOLUTION: A notch 30 is provided in the longitudinal center part of a low-melting-point fusible alloy piece 3 as a fuse element. A melting point of the low-melting-point fusible alloy piece 3 is set according to an upper limit temperature (tolerance temperature) of an electronic/electric apparatus to be protected, the low-melting-point fusible alloy piece 3 is melted when temperature of the apparatus reaches the upper limit temperature by any cause, an active operation or a wet accelerating operation of already melted flux 4 accelerates spheroidizing disconnection of the melted alloy, and the disconnection cuts off carrying a current to the apparatus. When a prescribed over current flows through the apparatus by any cause even at temperature less than the upper limit temperature of the apparatus, the over current fuses the notch 30 in the low-melting-point fusible alloy piece 3 with Joule heating to cut off carrying a current.

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